### AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

# **Listing of Claims:**

- 1. (Currently amended) A laundry and/or fabric care composition comprising:
  - a) from about 1% to about 80% by weight of surfactants selected from the group consisting of nonionic, anionic, cationic, amphoteric, zwitterionic surfactants, or mixtures thereof; and
  - b) from about 0.1% to about 5.0% by weight of a mixture of modified amylopectin starch based polymers and/or oligomers of the general formulas, alone or in combination formula:

Ŧ

<del>OY</del>

wherein each R is selected from the group consisting of R2, Rc, and

#### wherein:

- each R2 is independently selected from the group consisting of H and C1-C4 alkyl;

- each 
$$R_C$$
 is  $---(CH_2)y$   $-- C-OZ$ 

wherein each Z is independently selected from the group consisting of M, R2, Rc, and RH;

each R<sub>H</sub> is independently selected from the group consisting of C<sub>5</sub> -C<sub>20</sub> alkyl, C<sub>5</sub>-C<sub>7</sub> cycloalkyl, C<sub>7</sub>-C<sub>20</sub> alkylaryl, C<sub>7</sub>-C<sub>20</sub> arylalkyl, substituted alkyl, hydroxyalkyl, C<sub>1</sub>-C<sub>20</sub> alkoxy-2-hydroxyalkyl, (R<sub>4</sub>)<sub>2</sub>N-alkyl, (R<sub>4</sub>)<sub>2</sub>N-2-hydroxyalkyl, (R<sub>4</sub>)<sub>3</sub> N-alkyl, (R<sub>4</sub>)<sub>3</sub> N-2-hydroxyalkyl, C<sub>6</sub>-C<sub>12</sub> aryloxy-2-hydroxyalkyl,

each R<sub>4</sub> is independently selected from the group consisting of H, C<sub>1</sub>-C<sub>20</sub> alkyl, C<sub>5</sub>-C<sub>7</sub> cycloalkyl, C<sub>7</sub>-C<sub>20</sub> alkylaryl, C<sub>7</sub>-C<sub>20</sub> arylalkyl, aminoalkyl, alkylaminoalkyl,

Page 4 of 11

dialkylaminoalkyl, piperidinoalkyl, morpholinoalkyl, cycloalkylaminoalkyl and hydroxyalkyl;

each R<sub>5</sub> is independently selected from the group consisting of H, C<sub>1</sub> -C<sub>20</sub> alkyl, C<sub>5</sub>-C<sub>7</sub> cycloalkyl, C<sub>7</sub>-C<sub>20</sub> alkylaryl, C<sub>7</sub>-C<sub>20</sub> arylalkyl, substituted alkyl, hydroxyalkyl, (R<sub>4</sub>)<sub>2</sub>N-alkyl, and (R<sub>4</sub>)<sub>3</sub> N-alkyl;

### wherein:

M is a suitable cation selected from the group consisting of Na<sup>+</sup>, K<sup>+</sup>, 1/2Ca<sup>2+</sup>, 1/2Mg<sup>2+</sup>, or <sup>+</sup>NH<sub>j</sub>R<sub>k</sub> wherein j and k are independently from 0 to 4 and wherein j + k is 4 and R in this formula is any moiety capable of forming a cation, preferably methyl and/or ethyl group or derivative; each x is from 0 to about 5;

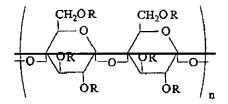
each y is from about 1 to about 5; and

# provided that:

- the Degree of Substitution for group R<sub>H</sub> is between about 0.001 and about 0.1, more preferably between about 0.005 and about 0.05, and most preferably between about 0.01 and about 0.05;
- the Degree of Substitution for group R<sub>C</sub> wherein Z is H or M is between about 0 and about 2.0, more preferably between about 0.05 and about 1.0, and most preferably between about 0.1 and about 0.5;
- if any R<sub>H</sub> bears a positive charge, it is balanced by a suitable anion; and
- two R<sub>4</sub>'s on the same nitrogen can together form a ring structure selected from the group consisting of piperidine and morpholine.
- 2. (Original) The laundry and/or fabric care composition of claim 1, wherein each R<sub>H</sub> is independently selected from the group consisting of C<sub>5</sub> -C<sub>20</sub> alkyl, C<sub>5</sub>-C<sub>7</sub> cycloalkyl, C<sub>7</sub>-C<sub>20</sub> alkylaryl, C<sub>7</sub>-C<sub>20</sub> arylalkyl, substituted alkyl, hydroxyalkyl, C<sub>1</sub>-C<sub>20</sub> alkoxy-2-hydroxyalkyl, C<sub>7</sub>-C<sub>20</sub> alkylaryloxy-2-hydroxyalkyl, (R<sub>4</sub>)<sub>2</sub>N-alkyl, (R<sub>4</sub>)<sub>2</sub>N-2-hydroxyalkyl, (R<sub>4</sub>)<sub>3</sub> N-alkyl, (R<sub>4</sub>)<sub>3</sub> N-2-hydroxyalkyl, and C<sub>6</sub>-C<sub>12</sub> aryloxy-2-hydroxyalkyl.

Page 5 of 11

- 4. (Currently amended) The laundry and/or fabric care composition of claim 1, wherein the modified amylopectin starch based polymer and/or oligomer has an average molecular weight of from about 5,000 to about 2,000,000.
- 5. (Currently amended) The laundry and/or fabric care composition of claim 1, wherein the modified amylopectin starch based polymer and/or oligomer has an average molecular weight of from about 10,000 to about 1,000,000.
- 6. (Currently amended) A laundry additive composition comprising:
  - a) from about 1% to about 80% by weight of water; and
  - b) from about 0.1% to about 80.0% by weight of modified <u>amylopectin</u> starch based polymers and/or oligomers of the general <u>formula formulas</u>, alone or in combination:



Į

<del>OT</del>

wherein each R is selected from the group consisting of R2, Rc, and

### wherein:

each R<sub>2</sub> is independently selected from the group consisting of H and C<sub>1</sub>-C<sub>4</sub> alkyl;

$$\begin{array}{ccc}
& O \\
& \text{II} \\
& \text{each } R_{C} \text{ is} \\
& \text{---} (CH_2) y \\
& \text{----} C \\
& \text{----} O \underline{Z},
\end{array}$$

wherein each Z is independently selected from the group consisting of M, R2, Rc, and RH;

each R<sub>H</sub> is independently selected from the group consisting of C<sub>5</sub>-C<sub>20</sub> alkyl, C<sub>5</sub>-C<sub>7</sub> cycloalkyl,
 C<sub>7</sub>-C<sub>20</sub> alkylaryl, C<sub>7</sub>-C<sub>20</sub> arylalkyl, substituted alkyl, hydroxyalkyl, C<sub>1</sub>-C<sub>20</sub> alkoxy-2-hydroxyalkyl, (R<sub>4</sub>)<sub>2</sub>N-alkyl, (R<sub>4</sub>)<sub>2</sub>N-2-hydroxyalkyl,
 (R<sub>4</sub>)<sub>3</sub> N-alkyl, (R<sub>4</sub>)<sub>3</sub> N-2-hydroxyalkyl, C<sub>6</sub>-C<sub>12</sub> aryloxy-2-hydroxyalkyl,
 O R<sub>5</sub> O R<sub>5</sub> O R<sub>5</sub> O

each R<sub>4</sub> is independently selected from the group consisting of H, C<sub>1</sub>-C<sub>20</sub> alkyl, C<sub>5</sub>-C<sub>7</sub> cycloalkyl, C<sub>7</sub>-C<sub>20</sub> alkylaryl, C<sub>7</sub>-C<sub>20</sub> arylalkyl, aminoalkyl, alkylaminoalkyl,

Page 7 of 11

dialkylaminoalkyl, piperidinoalkyl, morpholinoalkyl, cycloalkylaminoalkyl and hydroxyalkyl;

P & G PATENT DIV.

each R<sub>5</sub> is independently selected from the group consisting of H, C<sub>1</sub> -C<sub>20</sub> alkyl, C<sub>5</sub>-C<sub>7</sub> cycloalkyl, C<sub>7</sub>-C<sub>20</sub> alkylaryl, C<sub>7</sub>-C<sub>20</sub> arylalkyl, substituted alkyl, hydroxyalkyl, (R<sub>4</sub>)<sub>2</sub>N-alkyl, and (R<sub>4</sub>)<sub>3</sub> N-alkyl;

### wherein:

M is a suitable cation selected from the group consisting of Na $^+$ , K $^+$ , 1/2Ca $^{2+}$ , 1/2Mg $^{2+}$ , or  $^+$ NH<sub>j</sub>R<sub>k</sub> wherein j and k are independently from 0 to 4 and wherein j + k is 4 and R in this formula is any moiety capable of forming a cation, preferably methyl and/or ethyl group or derivative;

each x is from 0 to about 5;

each y is from about 1 to about 5; and

## provided that:

- the Degree of Substitution for group R<sub>H</sub> is between about 0.001 and about 0.1, more profesablybetween about 0.005 and about 0.05, and most preferably between about 0.01 and about 0.05;
- the Degree of Substitution for group R<sub>C</sub> wherein Z is H or M is between about 0 and about 2.0, more preferably between about 0.05 and about 1.0, and most preferably between about 0.1 and about 0.5;
- if any R<sub>H</sub> bears a positive charge, it is balanced by a suitable anion; and
- two R4's on the same nitrogen can together form a ring structure selected from the group consisting of piperidine and morpholine.
- 7. (Original) The laundry additive composition of claim 6, wherein each R<sub>H</sub> is independently selected from the group consisting of C<sub>5</sub> -C<sub>20</sub> alkyl, C<sub>5</sub>-C<sub>7</sub> cycloalkyl, C<sub>7</sub>-C<sub>20</sub> alkylaryl, C<sub>7</sub>-C<sub>20</sub> arylalkyl, substituted alkyl, hydroxyalkyl, C<sub>1</sub>-C<sub>20</sub> alkoxy-2-hydroxyalkyl, C<sub>7</sub>-C<sub>20</sub> alkylaryloxy-2-hydroxyalkyl, (R<sub>4</sub>)<sub>2</sub>N-alkyl, (R<sub>4</sub>)<sub>2</sub>N-2-hydroxyalkyl, (R<sub>4</sub>)<sub>3</sub> N-alkyl, (R<sub>4</sub>)<sub>3</sub> N-2-hydroxyalkyl, and C<sub>6</sub>-C<sub>12</sub> aryloxy-2-hydroxyalkyl.

Page 8 of 11

- 9. (Curently amended) The laundry additive composition of claim 6, wherein the modified starch-based amylopectin polymer and/or oligomer has an average molecular weight of from about 5,000 to about 2,000,000.
- 10. (Curently amended) The laundry additive composition of claim 6, wherein the modified etareh-based amylopectin polymer and/or oligomer has an average molecular weight of from about 10,000 to about 1,000,000.
- 11. (Original) The laundry additive composition of claim 1, wherein the Degree of Substitution for group R<sub>H</sub> is between about 0.01 and 0.05.
- 12. (Original) The laundry additive composition of claim 1, wherein the Degree of Substitution for group R<sub>C</sub> wherein Z is H or M is between about 0.4 and 0.7.
- 13. (Original) The laundry additive composition of claim 6, wherein the Degree of Substitution for group R<sub>B</sub> is between about 0.01 and 0.05.
- 14. (Original) The laundry additive composition of claim 6, wherein the Degree of Substitution for group R<sub>C</sub> wherein Z is H or M is between about 0.4 and 0.7.
- 15. (Curently amended) A method for treating a fabric in need of treatment comprising contacting the fabric with a modified starch based amylopectin polymer and/or oligomer material according to Claim 1 such that the fabric is treated.
- 16. (Curently amended) The method according to Claim 15 wherein said modified starch based polymer and/or oligomer material is selected from the group consisting of: amylose, amylopectin and mixtures thereof.

Claims 17-21 (Cancel)